

Fiber Optic Serial Data Transmission 2-Channel Duplex Rs485 Serial Data over Fiber

System Design

Video



Data

Audio

Ethernet

Fiber Optic Serial Data Transmitter & Receiver

VOS-2FOM-D485T/R provides for the digital transmission of 2-Channel duplex Rs485 serial data signal over one fiber.

Applications for PTZ Control for CCTV Surveillance Systems, Access Control System, Industrial control, Data Control for Manufacturing / Assembly Platforms, ITS...etc.

Stand-alone or rack-mount. All units of VOS-2FOM-D485T/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06).

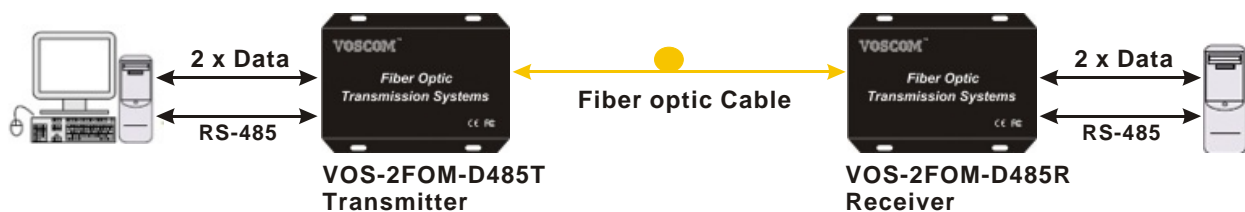
Single-Mode or Multi-Mode, VOS-2FOM-D485T/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.



Features

- Support Point-to-Point or Daisy-Chain connection
- Rs485 Serial data over one fiber
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

Typical Configuration



Serial Data over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-2FOM-D485MT	VOS-2FOM-D485MR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-2FOM-D485ST	VOS-2FOM-D485SR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-2FOM-D485ST-4	VOS-2FOM-D485SR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-2FOM-D485ST-6	VOS-2FOM-D485SR-6	Single-Mode	1310nm/1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ m multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

Specification

<ul style="list-style-type: none"> • Serial Data <p>Number of Channels: 2-Channel Duplex Rs485 Serial Data</p> <p>Data Formats: Rs485 Data, 2-wire</p> <p>Data Rate: DC to 115.2Kbps</p> <p>Bit Error Rate: < 10E-9</p>	<ul style="list-style-type: none"> • Connectors <p>Serial Data: Terminal Block</p> <p>Optical: FC/PC or ST/PC Optional</p> <p>Stand-Alone Power: Screw terminal block</p> <p>Rack Power: AC line cord</p>
	<ul style="list-style-type: none"> • Electrical & Mechanical <p>Input Power Requirements: DC 5V@2A</p> <p>Power Adapter: AC 100V~240V</p> <p>Power Consumption: < 3W</p> <p>Stand-Alone Dimensions: 142mm × 107mm × 25mm</p> <p>Card for 4U Rack Dimensions: 145mm × 170mm × 20mm</p> <p>Shipping Weight: 1.8kg (include TX & RX)</p>
	<ul style="list-style-type: none"> • Environmental <p>Operating Temperature: -45° C~+75° C</p> <p>Storage Temperature: -45° C~+85° C</p> <p>Relative Humidity: 0%~95% (non-condensing)</p> <p>MTBF: >100,000 hours</p>